

Claims

I claim:

1. A septic tank comprising at least four substantially flat plastic panels, a tank flow inlet, and a tank flow outlet.

2. A septic tank according to claim 1, wherein said tank comprises a baffle, and wherein said baffle divides the interior of the tank into an inlet compartment and an outlet compartment.

3. A septic tank according to claim 1, wherein said tank comprises a plastic lid.

4. A septic tank according to claim 3, wherein said lid comprises at least one lid opening.

5. A septic tank according to claim 2, wherein said tank comprises a plastic lid.

6. A septic tank according to claim 5, wherein said lid comprises at least one lid opening.

7. A septic tank according to claim 6, wherein said lid comprises at least one lid opening above said inlet compartment and at least one lid opening above said outlet compartment.

8. A septic tank according to claim 1, further comprising a plastic double-channel angle connection bracket; said double-channel angle connection bracket comprising: a deep panel receiving channel, defined by a first external panel retaining wall and a first internal panel retaining wall; and a shallow panel receiving channel, angularly connected to said deep panel receiving channel, and defined by a second external panel retaining wall and a second internal panel retaining wall.

9. A double-channel angle connection bracket comprising:
- a deep panel receiving channel, defined by a first external panel retaining wall and a first internal panel retaining wall;
 - a shallow panel receiving channel, angularly connected to said deep panel receiving channel, and defined by a second external panel retaining wall and a second internal panel retaining wall;
 - a side stop extending from said first external panel retaining wall into said deep panel receiving channel;
 - a side stop extending from said first internal panel retaining wall into said deep panel receiving channel;
 - a side stop extending from said second external panel retaining wall into said shallow panel receiving channel; and
 - a side stop extending from said second internal panel retaining wall into said shallow panel receiving channel.
10. A double-channel angle connection bracket according to claim 9, further comprising a bottom stop disposed within each of said deep panel receiving channel and said shallow panel receiving channel.
11. A double-channel angle connection bracket according to claim 9, wherein each of said side stops comprises a sloped panel accommodation surface.
12. A double-channel angle connection bracket according to claim 11, wherein said angle bracket is plastic.
13. A double-channel angle connection bracket according to claim 12, wherein said deep panel receiving channel and said shallow panel receiving channel are perpendicular to each other.
14. A septic tank comprising a double-channel angle connection bracket according to claim 9.

15. A septic tank according to claim 14, wherein said double-channel angle connection bracket further comprises a bottom stop disposed within each of said deep panel receiving channel and said shallow panel receiving channel.

16. A septic tank according to claim 14, wherein each of said side stops comprises a sloped panel accommodation surface.

17. A septic tank according to claim 16, wherein said angle bracket is plastic.

18. A septic tank according to claim 17, wherein said deep panel receiving channel and said shallow panel receiving channel are perpendicular to each other.

19. A septic tank according to claim 8, wherein said double-channel angle connection bracket further comprises

a side stop extending from said first external panel retaining wall into said deep panel receiving channel;

a side stop extending from said first internal panel retaining wall into said deep panel receiving channel;

a side stop extending from said second external panel retaining wall into said shallow panel receiving channel; and

a side stop extending from said second internal panel retaining wall into said shallow panel receiving channel.

20. A septic tank according to claim 19, wherein said double-channel angle connection bracket further comprises a bottom stop disposed within each of said deep panel receiving channel and said shallow panel receiving channel.

21. A septic tank according to claim 19, wherein each of said side stops comprises a sloped panel accommodation surface.

22. A septic according to claim 19, wherein said deep panel receiving channel and said shallow panel receiving channel are perpendicular to each other.

23. A septic tank according to claim 3, wherein said tank comprises at least five substantially flat plastic panels.

24. A septic tank according to claim 4, wherein said tank comprises at least five substantially flat plastic panels.

25. A septic tank according to claim 5, wherein said tank comprises at least five substantially flat plastic panels.

26. A septic tank according to claim 6, wherein said tank comprises at least five substantially flat plastic panels.

27. A septic tank according to claim 7, wherein said tank comprises at least five substantially flat plastic panels.

28. A septic tank according to claim 8, wherein said tank comprises at least five substantially flat plastic panels.

29. A septic tank according to claim 19, wherein said tank comprises at least five substantially flat plastic panels.

30. A septic tank according to claim 20, wherein said tank comprises at least five substantially flat plastic panels.

31. A septic tank according to claim 21, wherein said tank comprises at least five substantially flat plastic panels.

32. A septic tank according to claim 22, wherein said tank comprises at least five substantially flat plastic panels.

33. A septic tank according to claim 3, wherein said tank comprises at least six substantially flat plastic panels.

34. A septic tank according to claim 4, wherein said tank comprises at least six substantially flat plastic panels.

35. A septic tank according to claim 5, wherein said tank comprises at least six substantially flat plastic panels.

36. A septic tank according to claim 6, wherein said tank comprises at least six substantially flat plastic panels.

37. A septic tank according to claim 7, wherein said tank comprises at least six substantially flat plastic panels.

38. A septic tank according to claim 8, wherein said tank comprises at least six substantially flat plastic panels.

39. A septic tank according to claim 19, wherein said tank comprises at least six substantially flat plastic panels.

40. A septic tank according to claim 20, wherein said tank comprises at least six substantially flat plastic panels.

41. A septic tank according to claim 21, wherein said tank comprises at least six substantially flat plastic panels.

42. A septic tank according to claim 22, wherein said tank comprises at least six substantially flat plastic panels.

43. A septic tank according to claim 33, wherein said tank comprises
a substantially flat plastic bottom panel;
a substantially flat plastic lid panel;
two substantially flat plastic side panels; and
two substantially flat plastic end panels, one of said end panels having a tank flow inlet and the other of said end panels having a tank flow outlet.

44. A septic tank according to claim 43, wherein said lid panel has at least one opening therein, and further comprising a hatch cover corresponding to each said opening in said lid panel.

45. A septic tank according to claim 43, further comprising a baffle, and wherein said baffle divides the interior of the tank into an inlet compartment and an outlet compartment.

46. A septic tank according to claim 45, wherein said lid panel has at least one opening therein, and further comprising a hatch cover corresponding to each said opening in said lid panel.

47. A septic tank according to claim 46, wherein said lid panel comprises at least one lid opening above said inlet compartment and at least one lid opening above said outlet compartment.

48. A septic tank according to claim 46, further comprising a plastic double-channel angle connector bracket; said double-channel angle connection bracket comprising: a deep panel receiving channel, defined by a first external panel retaining wall and a first internal panel retaining wall; and a shallow panel receiving channel, angularly connected to said deep panel receiving channel, and defined by a second external panel retaining wall and a second internal panel retaining wall.

49. A septic tank according to claim 47, further comprising a plastic double-channel angle connector bracket; said double-channel angle connection bracket comprising: a deep panel receiving channel, defined by a first external panel retaining wall and a first internal panel retaining wall; and a shallow panel receiving channel, angularly connected to said deep panel receiving channel, and defined by a second external panel retaining wall and a second internal panel retaining wall.

50. A septic tank according to claim 46, further comprising at least one plastic internal structural support member selected from the group consisting of a vertical

structure support, a horizontal structural support extending between side panels, and a horizontal structural support extending between said baffle and an end panel.

51. A septic tank according to claim 47, further comprising at least one plastic internal structural support member selected from the group consisting of a vertical structure support, a horizontal structural support extending between side panels, and a horizontal structural support extending between said baffle and an end panel.

52. A septic tank according to claim 48, further comprising at least one plastic internal structural support member selected from the group consisting of a vertical structure support, a horizontal structural support extending between side panels, and a horizontal structural support extending between said baffle and an end panel.

53. A septic tank according to claim 49, further comprising at least one plastic internal structural support member selected from the group consisting of vertical structure support, a horizontal structural support extending between side panels, and a horizontal structural support extending between said baffle and an end panel.

54. A septic tank according to claim 50, wherein said at least one plastic internal structural support member comprises a polyvinylchloride pipe.

55. A septic tank according to claim 51, wherein said at least one plastic internal structural support member comprises a polyvinylchloride pipe.

56. A septic tank according to claim 52, wherein said at least one plastic internal structural support member comprises a polyvinylchloride pipe.

57. A septic tank according to claim 53, wherein said at least one plastic internal structural support member comprises a polyvinylchloride pipe.

58. A septic tank kit comprising:
at least four substantially flat plastic panels, one of said panels comprising a tank flow inlet and one other of said panels comprising a tank flow outlet; and
instructions for assembling said panels into a septic tank.
59. A septic tank kit according to claim 58, further comprising means for connecting said panels to one another.
60. A septic tank kit of claim 59, wherein said means for connecting comprises a plurality of angle connection brackets.
61. A septic tank kit of claim 60, wherein said angle connection brackets are double-channel angle connection brackets.
62. A septic tank kit of claim 59, wherein said means for connecting comprises a plurality of fasteners.
63. A septic tank kit of claim 62, wherein said fasteners comprise stainless steel screws.
64. A septic tank kit of claim 58, wherein said kit comprises:
a substantially flat plastic bottom panel;
a substantially flat plastic lid panel;
two substantially flat plastic side panels; and
two substantially flat plastic end panels, one of said end panels having a tank flow inlet and the other of said end panels having a tank flow outlet.
65. A septic tank kit of claim 64, wherein said kit further comprises a plurality of angle connection brackets.
66. A septic tank kit of claim 65, wherein said angle connection brackets are double-channel angle connection brackets.

67. A septic tank kit of claim 66, wherein said double-channel angle connection brackets are plastic.

68. A septic tank kit of claim 64, wherein said lid panel has at least one opening therein.

69. A septic tank kit of claim 68, further comprising at least one hatch cover corresponding to each opening in said lid panel.

70. A method of providing a septic tank, comprising the steps of:
obtaining a septic tank kit according to any of claims 58-69; and
assembling the contents of said kit into a septic tank.

71. A riser, comprising
a substantially flat plastic top portion;
at least 3 downwardly extending plastic sidewalls connected to the bottom side of said top portion and defining an internal space; and
a substantially flat plastic bottom portion connected to the bottom edges of said downwardly extending sidewalls; there being a centrally located opening in each of said top portion and said bottom portion allowing access to said internal space.

72. A riser according to claim 71, comprising 4 plastic sidewalls.